Reducing Sediment in Cascade Creek

Clean Water Funds: 2012

Clean Water Grant	$575,540
Leveraged Funds*	$271,000
Total Project Budget	$846,540

* Leveraged Funds include

Targeted Water:
south branch cascade creek

Project Sponsor:
Olmsted County

Grant Period:
January 2012—December 2014

Project Contact:
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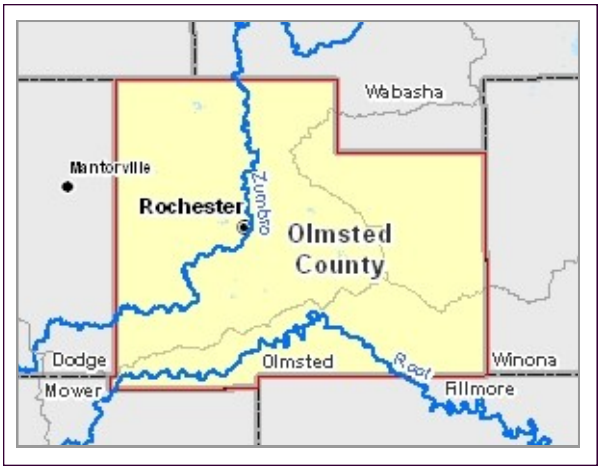
C12-159 - Clean Water Assistance

Project Narrative

High sediment levels in streams are prevalent throughout South Eastern Minnesota. Installing proven and cost-effective conservation practices that collectively reverse these impairments while also meeting flood protection and ecosystem support goals are needed. The purpose of this project is to design, construct, and maintain two retention structures and restore approximately one mile of failed stream bank. This project integrates objectives of Olmsted County, the Department of Natural Resources and City of Rochester into a common project.



This project will also create community engagement and education opportunities to demonstrate the selected design, construction and maintenance practices to local engineers, land owners, technical staff and interested citizens in an effort to encourage these practices throughout the Cascade Creek sub-watershed and the Zumbro River Watershed. Uniquely, this project will be supplemented by a separately funded project to measure the long-term downstream impacts to ecosystem health and assess project effectiveness in reducing turbidity levels and flood peaks.

Proposed Outcomes:

2 retention structures - south branch cascade creek

Streambank restoration - south branch cascade creek

Proposed Reductions: 87 ft3/sec Hydrology, 4,080 lbs/year Phosphorus and 2006 tons/year Sediment

Actual Outcomes:

Project in Progress

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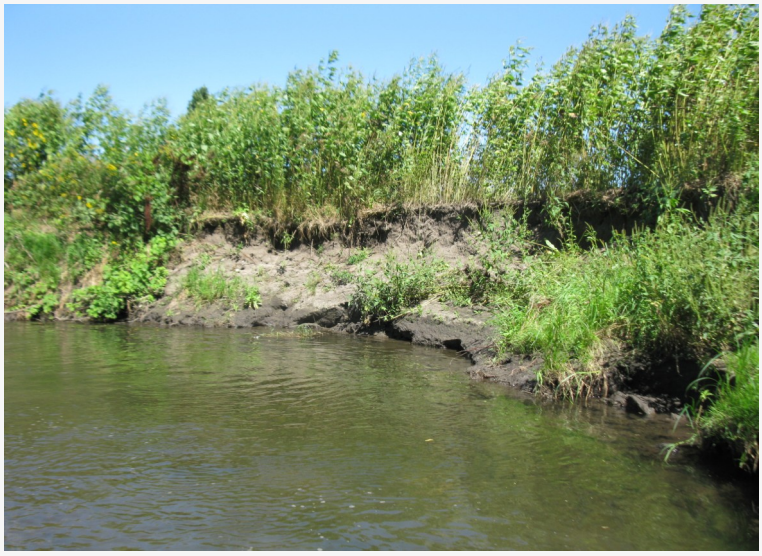

South Branch Cascade Creek Streambank Erosion Example